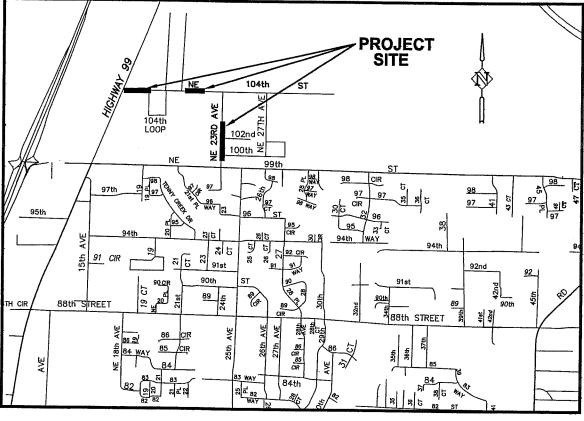
CLARK COUNTY DEPARTMENT OF PUBLIC WORKS COUNTY ROAD PROJECT #350112, COUNTY REVIEW #ENG2005-00060 FEDERAL AID No. CDBG-0505

SARAH J. ANDERSON ELEMENTARY PEDESTRIAN PROJECT-

N.E. 104TH ST. FROM HWY. 99 TO N.E. 23RD AVE. AND N.E. 23RD AVE. FROM N.E. 104TH ST. TO N.E. 99TH ST.

PLANS FOR THE CONSTRUCTION OF PEDESTRIAN PATHWAY





COVER / VICINITY MAP TYPICAL SECTIONS AND DETAILS RETAINING WALL DETAILS EROSION CONTROL NOTES AND DETAILS CONSTRUCTION DETAILS DRAINAGE DETAILS N.E. 104TH ST. NEAR HWY. 99 PLAN AND PROFILE N.E. 104TH ST. NEAR SARAH J. ANDERSON PLAN AND PROFILE N.E. 23RD AVE. PLAN AND PROFILE RETAINING WALL PLAN AND PROFILES CROSS SECTIONS FOR N.E. 104TH STREET NEAR HWY. 99 STA: 0+50 TO 2+52.43

INDEX OF SHEETS

CROSS SECTIONS INCLUDED FOR REVIEW PURPOSES ONLY. SHEETS NOT TO BE INCLUDED WITH CONSTRUCTION PLAN SET.

15. CROSS SECTIONS FOR N.E. 23RD AVENUE STA: 1+60 TO 4+30 16. CROSS SECTIONS FOR N.E. 23RD AVENUE STA: 4+34.52 TO 6+80

CLARK COUNTY

Transportation Standards Ordinance CCC 1: Transportation Landscaping Review Utility Review CCC 13.12A & 12.20A Clark County Signing & Striping Road Modification CCC 12.05A.660 CARA CCC 13.70 Geological Hazard Areas Reg. CCC 13.60 Flood Plain Combining District CCC 18.327 Sever and Water on Plan Clark County M & O Parament Deff. Testing Private Stomwards Covenant Record Drawing Guranina

Clark County Enginee

CROSS SECTIONS FOR N.E. 104TH STREET NEAR HWY. 99 STA: 2+56.97 TO 2+72.47 13. CROSS SECTIONS FOR N.E. 104TH STREET NEAR SARAH J. ANDERSON STA: 8+30 TO 10+70 CROSS SECTIONS FOR N.E. 104TH STREET NEAR SARAH J. ANDERSON STA: 10+80 TO 11+80

FOR INFORMATIONAL PURPOSES ONLY ALL PLAN DETAIL AND INFORMATION IS NOT SHOWN ON THIS

99% DESIGN REVIEW PLANS - JUNE 2005

VICINITY MAP

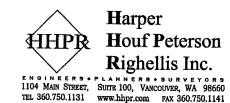
COMMISSIONERS:

BETTY SUE MORRIS, Chair MARC BOLDT, Commissioner STEVEN J. STUART, Commissioner



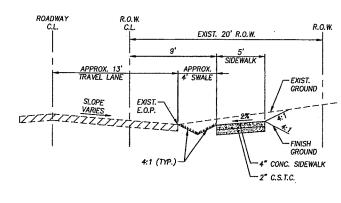
DEPARTMENT OF PUBLIC WORKS

ENGINEERING PROGRAM- DESIGN SECTION

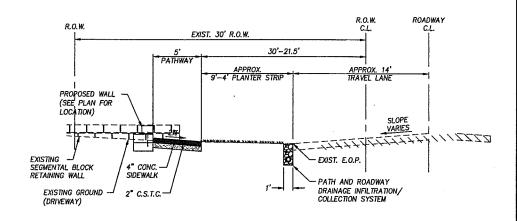


Project Manager	Quality Assurance	County Engineer		
Richard Gamble, P.E.	Heath Henderson, P.E.	Peter Capell, P.E.		

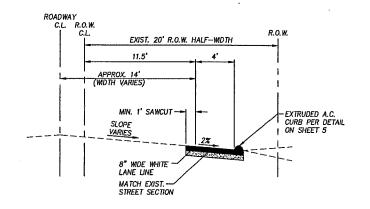
SECTION A-A N.E. 104TH STREET SECTION STA: 1+01.50 TO 1+20.00 LOOKING EAST N.T.S.



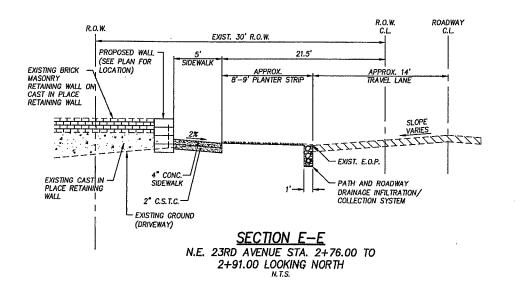
SECTION D-D N.E. 104TH STREET SECTION STA. 9+90.00 TO 11+64.00 LOOKING EAST

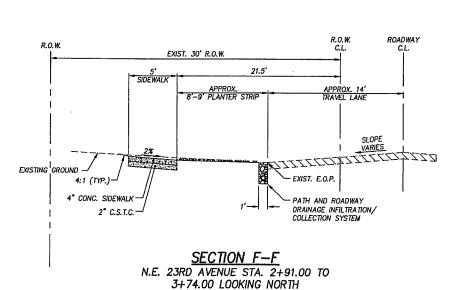


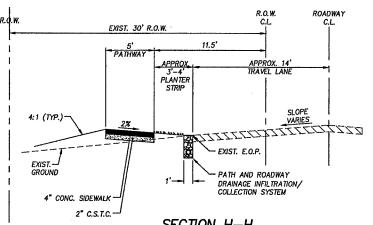
SECTION G-G N.E. 23RD AVENUE STA. 3+74.00 TO 3+86.00 LOOKING NORTH N.T.S.

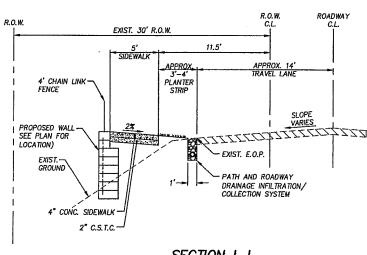


SECTION B-B N.E. 104TH STREET SECTION STA: 0+78.00 TO 1+01.50 AND 1+20.00 TO 2+72.49 LOOKING EAST

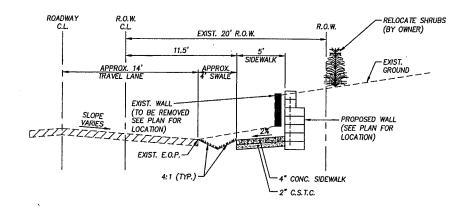








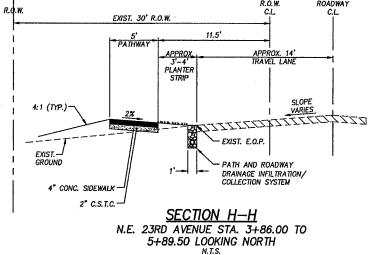
SECTION I-I N.E. 23RD AVENUE STA. 5+89.50 TO 6+82.00 LOOKING NORTH



SECTION C-C N.E. 104TH STREET STA. 8+29.78 TO 9+90.00 LOOKING EAST







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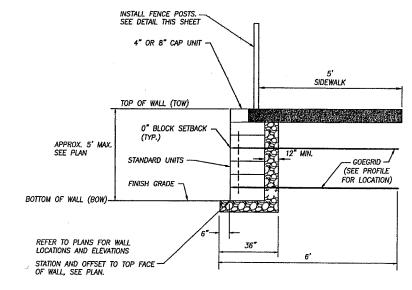
1-800-553-4344 "It's the Law"

Houf Peterson
Righellis Inc.

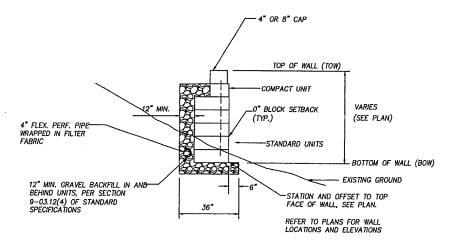
SARAH J. ANDERSON ELEMENTARY
PEDESTRIAN PROJECT ENGINEERING PROGRAM

NOTE: SECURE CAP UNITS TO STANDARD UNITS USING KAPSEAL ADHESIVE OR APPROVED EQUAL

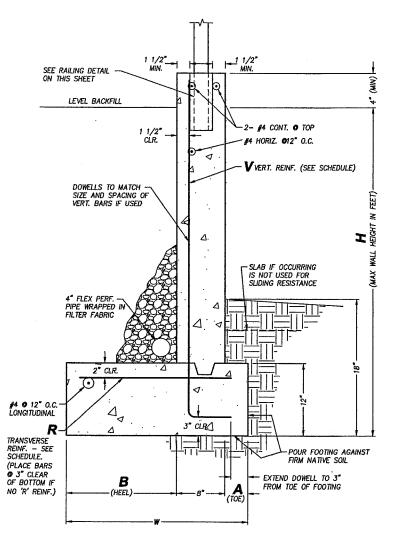
RETAINING WALL FENCE POST DETAIL- WALL "E"



WALL "E" - SEGMENTAL BLOCK SECTION

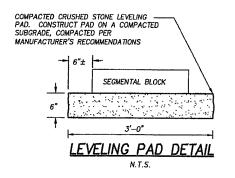


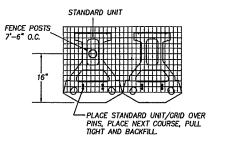
TYPICAL SEGMENTAL BLOCK SECTION



Н	W	Á	A B V		R
MAX HT. IN FEET	TOTAL WIDTH IN INCHES	TOE LENGTH IN INCHES	HEEL LENGTH IN INCHES	VERT. REINF. IN WALL	TRANSVERSE REINF. IN FOOTING
2'-6"	8"	4"	6*	#4 0 12" O.C.	NOT REQUIRED
MAX SUB		SSURE = 150 CIENT OF FRIC	00 PSI CTION = 0.30	OWNG PARAMETE	RS:
	. PASSIVE PRES				

CAST IN PLACE CONCRETE RETAINING WALL DETAIL

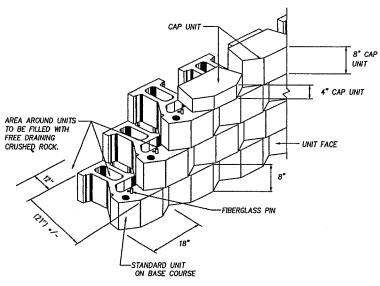




PIN CONNECTION DETAIL

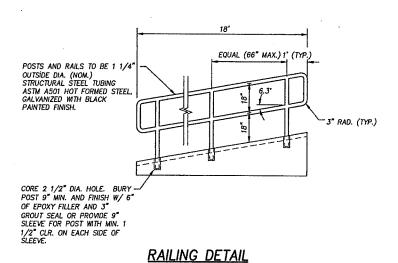
FIBERGLASS PIN

N.T.S.



NOTE: SECURE CAP UNITS TO STANDARD UNITS USING KAPSEAL ADHESIVE OR APPROVED EQUAL

SEGMENTAL BLOCK RETAINING WALL TYPICAL STANDARD UNITS N.T.S.



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DESIGN SECTION
SARAH J. ANDERSON ELEMENTARY
PEDESTRIAN PROJECT PROGRAM ENGINEERING

SPACING BETWEEN CHECK DAMS

 CHECK DAMS ARE CONSTRUCTED ACROSS A SWALE OR DITCH TO REDUCE VELOCITIES OF CONCENTRATED FLOWS, THEREBY REDUCING EROSION AND ALLOWING A SIGNIFICANT AMOUNT OF SUSPENDED SEDIMENT TO SETTLE OUT.

2. CHECK DAMS SHALL BE USED IN TEMPORARY OR PERMANENT CHANNELS THAT DRAIN 10 ACRES OR LESS, ARE NOT YET REGETATED, AND WHEN INSTALLING CHANNEL LINING IS NOT FEASIBLE.

3. USE TYPICAL ROCK SIZE OF 2-4 Inch. PLACE ROCK BY HAND OR BY MECHANICAL MEANS RATHER THAN DUMPING THE ROCK. BRIDGE ENTIRE DITCH OR SWALE WIDTH AND ENSURE THE CENTER OF THE DAM IS 6^* LOWER THAN THE OUTER ENDS. FOR HIGHER VELOCITY FLOWS: ± 5 FPS USE 6^*-12^* RIPRAP, AND HAND PLACE LARGER ROCK ON UPSTREAM SIDE OF DAM.

4. REMOVE CHECK DAMS FROM GRASS-LINED DITCHES AND SWALES ONCE THE GRASS IS ESTABLISHED. SEED, MULCH OR MAT THE AREA WHERE THE CHECK DAMS WERE, IMMEDIATELY FOLLOWING REMOVAL.

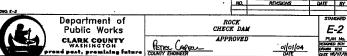
5. INSPECT ONCE PER WEEK ON ACTIVE SITES, ONCE EVERY TWO WEEKS ON INACTIVE SITES, AND WITHIN 24 HOURS FOLLOWING

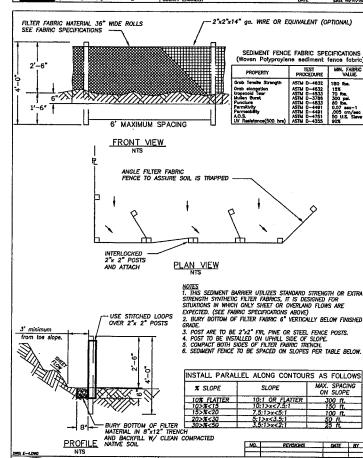
5. INSPECT ONCE PER WEEK ON ACTIVE SITES, ONCE EVERY TWO WEEKS ON INACTIVE SITES, AND WITHIN 24 HOURS FOLLOWING A 0.5 INCH RUN EVERT. REMOVE SEDWENT ONCE IT REMCHES ONE—THIRD THE DEPTH OF THE ROCK WEIR. REPLACE ROCK WEIR WHEN FLEETING CAPACITY IS REDUCED BY ONE—THIR.

6. SPACING TABLE FOR CHECK DAMS:

CHECK DAM NOTES:

DITCH GRADE	MINIMUM WEIR DEPTH			
	6 INCH	12 INCH	18 INCH	
6%	**	L=16 ft O.C.	L=26 ft O.C	
5%	**	L= 20 ft	L= 30 ft	
4%	**	L= 28 ft	L= 40 ft	
3%	15 ft	L= 33 ft	L= 50 ft	
2%	25 ft	L= 50 ft	L= 80 ft	



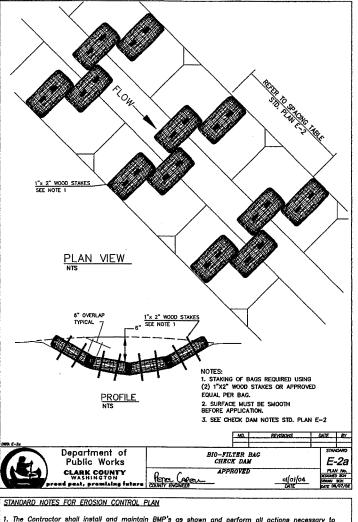


Public Works

CLARK COUNTY

STANDARD SEDIMENT FENCE

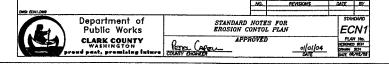
E-4

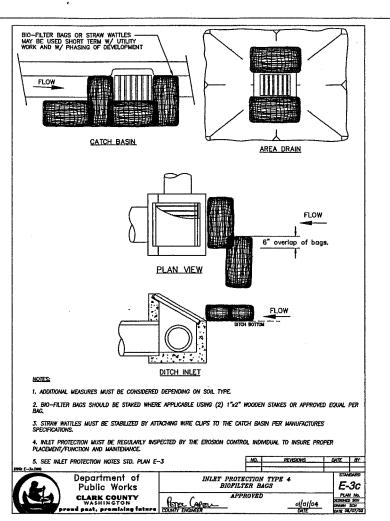


- 1. The Contractor shall install and maintain BMP's as shown and perform all actions necessary to prevent erosion, and control sediment from leaving the construction site. Site Contractor shall comply with Clark County Code Chapter 40.380.050.
- All erosion control measures shall be in-place and in working condition prior to disturbing and exposing any soil surfaces (i.e. silt fence, construction entrance, sedimentation barriers, sedimentation traps).
- 3. All erosion prevention and control BMP's shall be maintoined and repaired as needed to insure continued performance of their intended function. Needed repairs shall be made as soon as practicable. They are to remain in place and operational during all phases of construction. Construction activities shall not continue or resume until repairs to erosion control facilities are made and the facilities are functional. Any sediment leaving the site or discharging to a sensitive area shall be stopped and controlled immediately. Contaminated areas shall be cleaned and restored.
- Clearing limits and work area limits shall be delineated and marked. Do not disturb more area than needed for construction requirements.
- 5. All sensitive or critical areas (wetlands, steep slopes, natural waterways), and buffers shell all be clearly delineated and clearly marked, and protected from sediment deposition.

 6. Sediment laden runoff shall be prevented from entering all existing storm water catch basins and inlets officeably construction.
- 7. No exposed, bare soils shall remain unstabilized for more than two days during the period October 1 thru April 30 or for more than seven days during the period of May 1 through September 30. All disturbed soil surfaces shall be stabilized by a suitable application of "Best Management Practices".
- 8. Where feasible, no more than 500 feet of trench shall be open at one time. Excavated material shall be placed on the up-hill side of trenches provided it does not conflict with safety requirements.
- 9. Dewatering devices shall discharge into a sediment trap or sediment pond. No discharge shall be made to a paved street or stormwater collection system without first removing sediment.
- 10. Cut and fill slopes shall be constructed in a manner that will minimize erosion. Erosion shall be controlled and prevented by such measures as roughening the surface, installation of interceptor ditches, terracing, covering with matting, mulch or plastic sheeting. Runoff shall be prevented from entering a slope and from undercutting the base of slopes.
- 11. Any soil or debris transported onto roadways and sidewalks shall be removed. Deposits shall be completely removed by shoveling and/or sweeping. Washing shall not be utilized unless specifically approved in writing by the County.
- 12. All permanent infiltration systems shall be isolated and protected from sediment laden runoff entering to avoid risk of reducing the ability of the systems to infiltrate. Isolation and protection shall not be removed until the drainage area tributary to the system is completely stabilized.

CONTINUED ON SHEET 2





STANDARD NOTES FOR EROSION CONTROL PLAN (CONTINUED)

- 13. All conveyance channels, both temporary and permanent shall be stabilized to prevent erosion of the channel. Stabilization shall extend to areas at outlets and downstream reaches vulnerable to erosion resulting from flow discharging from the channel.
- 14. If BMP's shown are utilized but are insufficient to prevent sediment from reaching water bodies, adjacent properties, or public rights-of-way; additional BMP's shall be implemented immediately to prevent further encroachment of sediment.
- 15. Stabilized areas shall be provided for employee parking and storage of construction materials. Erodeable stockpiles of earthen materials, such as topsoil, silty and clayey soils; and landscape materials, shall be covered when not being incorporated in the work. Erosion control BMP's shall be utilized as necessary to prevent sediment laden runoff from leaving or sediment being transported from these areas from vehicle activity.
- 16. All pollutants other than sediment that occur during construction shall be handled and disposed of in a manner that does not cause contamination of storm water.
- 17. The Contractor shall keep an inspection log of the condition of the erosion control facilities. Erosion control facilities shall be inspected at least weekly and after each rainfall. The inspection log shall be kept at the project site at a designated location and shall be available for review by the County. An individual that has successfully completed the County's Erosion Control Certification course shall perform inspections and maintain the log.
- 18. All temporary BMP's shall be removed within 30 days after final site stabilization is achieved. Trapped sediment shall be deposited and stabilized on site. Areas disturbed resulting from removal shall be permanently stabilized.
- 19. Construction shall not be considered complete and acceptable until all disturbed soil surfaces have been protected from erosion with permanent landscoping, covering with impervious surfaces, restored to original undisturbed condition or permanently stabilized.
- 20. Vegetated stabilization and landscaping shall be fertilized, watered and maintained to insure that growth of vegetation is established and sustained.
- 21. During dry weather construction periods the contractor shall provide project-specific dust control measures that may include: Seeding, Mulching, Matting, Water, Tackifier, or Chemical Soil Stabilizers. The contractor shall maintain the dust control measures through dry weather periods until all disturbed areas have been stabilized. Immediately re-stabilize areas disturbed by contractor's operations or other activities (wind, water, vandalism, etc.).
- 22. Entry onto the construction site shall be restricted to a single approved entrance as shown on the plan.
- 23. Maintenance and repair of heavy equipment and vehicles which involve potential contaminants (oil,solvents,hydroulic fluid, etc.) must be conducted in a manner which prevents contamination of soils, surface water and ground water. Tarps, drip pans, or other oppropriate measures shall be used as necessary.
- 24. Stripping, topsoil, and unsuitable material stockpiles shall be hydroseeded with "regreen wheat x wheat grass hybrid" by Habbs and Hobkins (or approved equal). Maintenance of stockpile areas and reapplication of hydroseed covering shall be required if bare soll is present. During winter and wet weather conditions, stockpiles shall be covered with plastic sheeting per detail E-16.

OWG: EGNLOWS		SHEET 2 OF 2	NO.	REVISIONS	DATE	BY
Public Wo	Department of Public Works	STANDARD NOTES (CONTINUED) FOR EROSION CONTOL PLAN				N2
	CLARK COUNTY WASHINGTON and poat, promising future	Pero Capan	ROVE	ol[0][04 DATE	PESIONE	301

NOTE:
SIGNIFICANT VARIATION AND DEGREE OF EROSION CONTROL
EFFORT WILL BE DICTATED BY WEATHER CONDITIONS. THE
DEVELOPER AND CONTRACTOR SHOULD BE PREPARED TO
PROVIDE EXTRA EROSION CONTROL PROVISIONS AND
EFFORT DURING WINTER AND WET WEATHER CONDITIONS
BEYOND THAT NORMALLY REQUIRED DURING SUMMER AND
DRY WEATHER CONDITIONS. FINE GRAINED AND
UNCONSOLIDATED SOILS ON SLOPING SITES MAY BECOME
UNISTABLE WHEN SUBJECT TO EXCESSIVE MOISTURE.

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Righellis Inc.
Righellis Inc.
Walthur.com RN 366750.1141

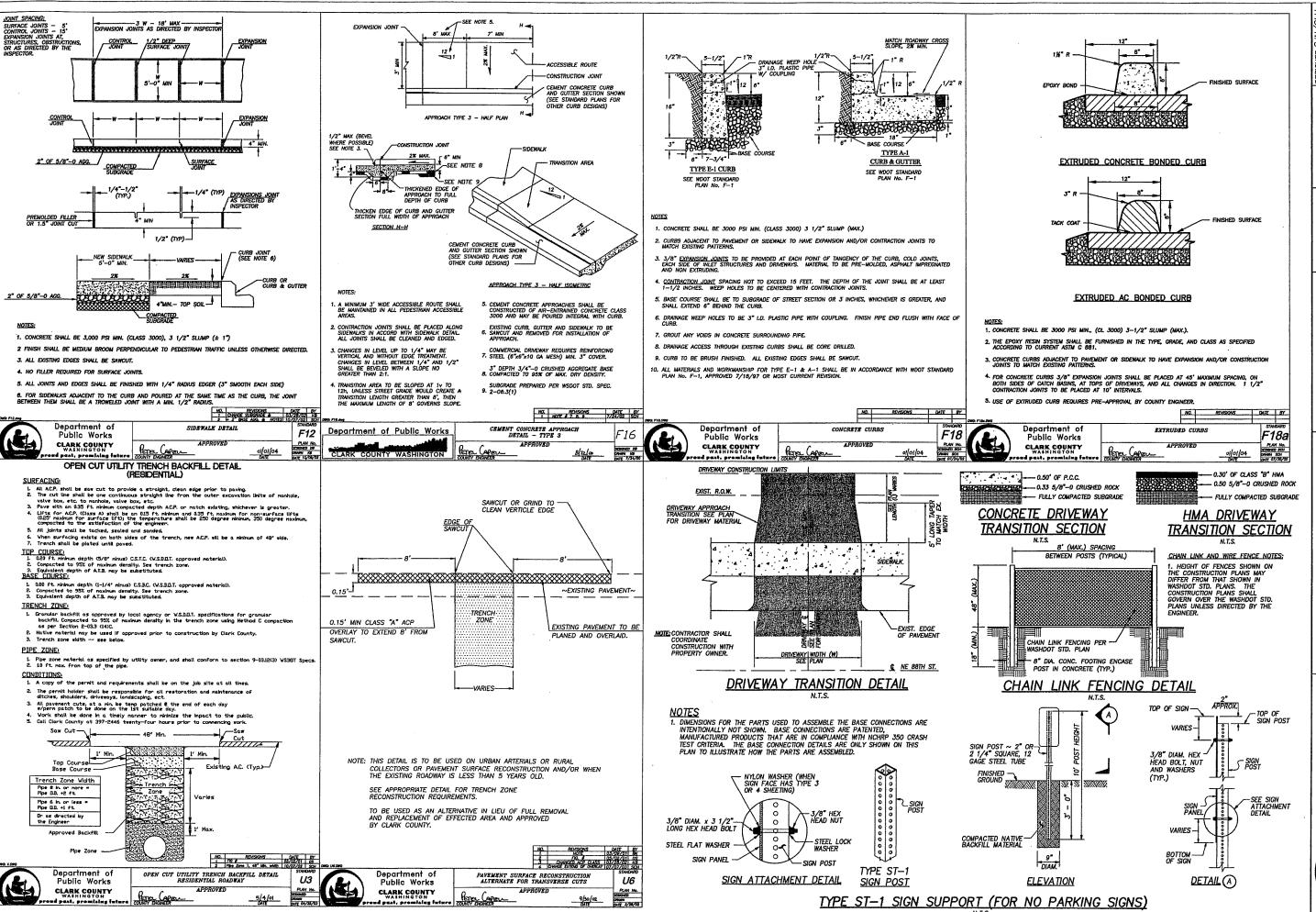
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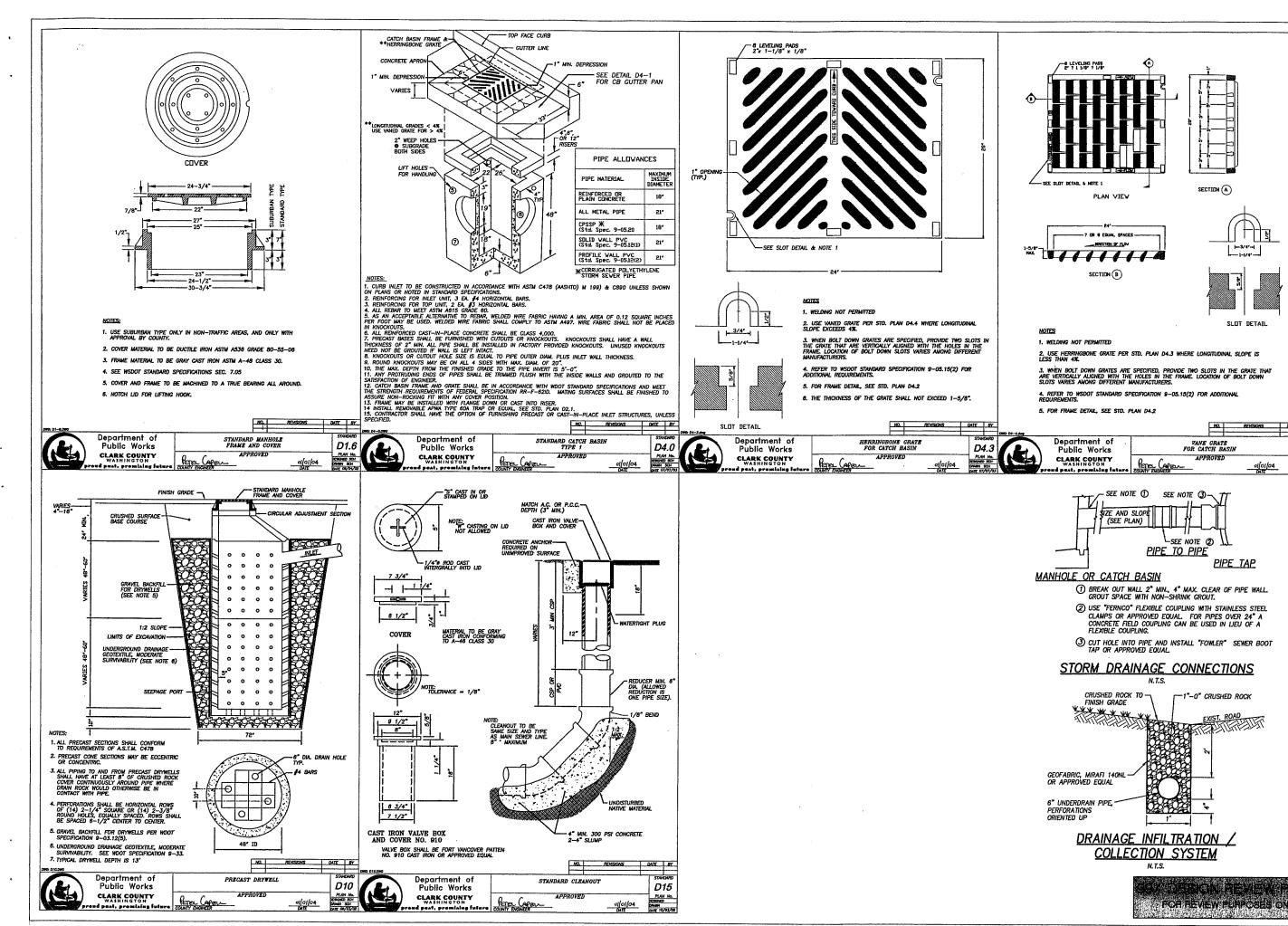
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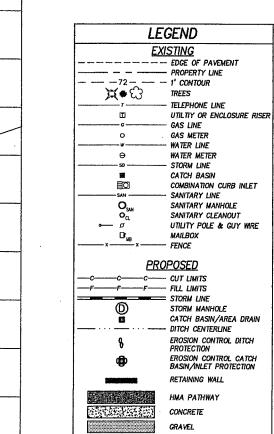
I J. ANDERSON ELEMENTARY PEDESTRIAN PROJECT ≥ PROGRAM ECTION SIGN

ENGINEERING

D4.4

SARAH

-EXIST. GROUND & L.S.



N.E. 104TH STREET PROFILE

2+00

EXIST GROUND AT-CENTERLINE OF RIGHT-OF-WAY

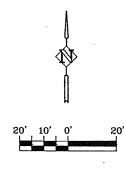
1+00

170

160

150





CONSTRUCTION NOTES:

- (1) SAWCUT EXIST. ASPHALT OR CONCRETE AS SHOWN.
- (2) CONSTRUCT HMA PEDESTRIAN PATH PER PLAN. SEE SHEET 2 OF 10 FOR TYPICAL SECTION.
- (3) MATCH NEW HMA PATH TO EXIST. ASPHALT. PROVIDE SAND SEAL AT CONNECTION POINT.
- 4 MATCH NEW HMA PATH TO EXIST. CONCRETE SIDEWALK.
- (10) CONSTRUCT CAST IN PLACE CONCRETE RETAINING WALL PER DETAIL ON SHEET 5 OF 10.
- (1) SAWCUT EXIST. CONCRETE RETAINING WALL AND MATCH EXISTING WALL ELEVATIONS AT CONNECTION POINT. PLACE NON-SHRINK GROUT IN WALL SEAM.
- (4) CONSTRUCT HMA DRIVEWAY TRANSITION. SEE SHEET 5 OF 10 FOR DETAIL AND STRUCTURAL SECTION.
- 19 PROTECT (PRO), RELOCATE (REL) EXISTING SIGN.
- PROTECT (PRO), RELOCATE (REL) EXISTING
 UTILITY POLE. COORDINATE WITH UTILITY PRIOR
 TO CONSTRUCTION.
- (2) PROTECT EXISTING UTILITY RISER, TRANSFORMER OR PEDESTAL. COORDINATE WITH UTILITY PRIOR TO CONSTRUCTION.
- 22 PROTECT EXISTING STRUCTURE.
- 23 PROTECT EXISTING CURB AND OR SIDEWALK.
- PROTECT EXISTING WATER METER AND ADJUST TO FINISH GRADE AS NECESSARY.
- 32) PROTECT EXISTING FENCE.
- 33 REMOVE EXIST. AREA DRAIN.
- (36) INSTALL STANDARD TYPE 1 CATCH BASIN WITH VANE GRATE AND CONNECT TO EXIST. 6" STORM PIPE FROM NORTH. SEE SHEET 6 OF 10 FOR DETAILS.
- PROVIDE INLET PROTECTION PER DETAIL ON SHEET 4 OF 10.
- 1 INSTALL STORM INLET PROTECTION ON
- (50) INSTALL 4" STORM PIPE, CONNECT TO RETAINING WALL FOUNDATION DRAIN WITH MIN. SLOPE = 0.0200.
- (5) INSTALL PAINTED 8" WIDE, WHITE LANE LINE STRIPING.



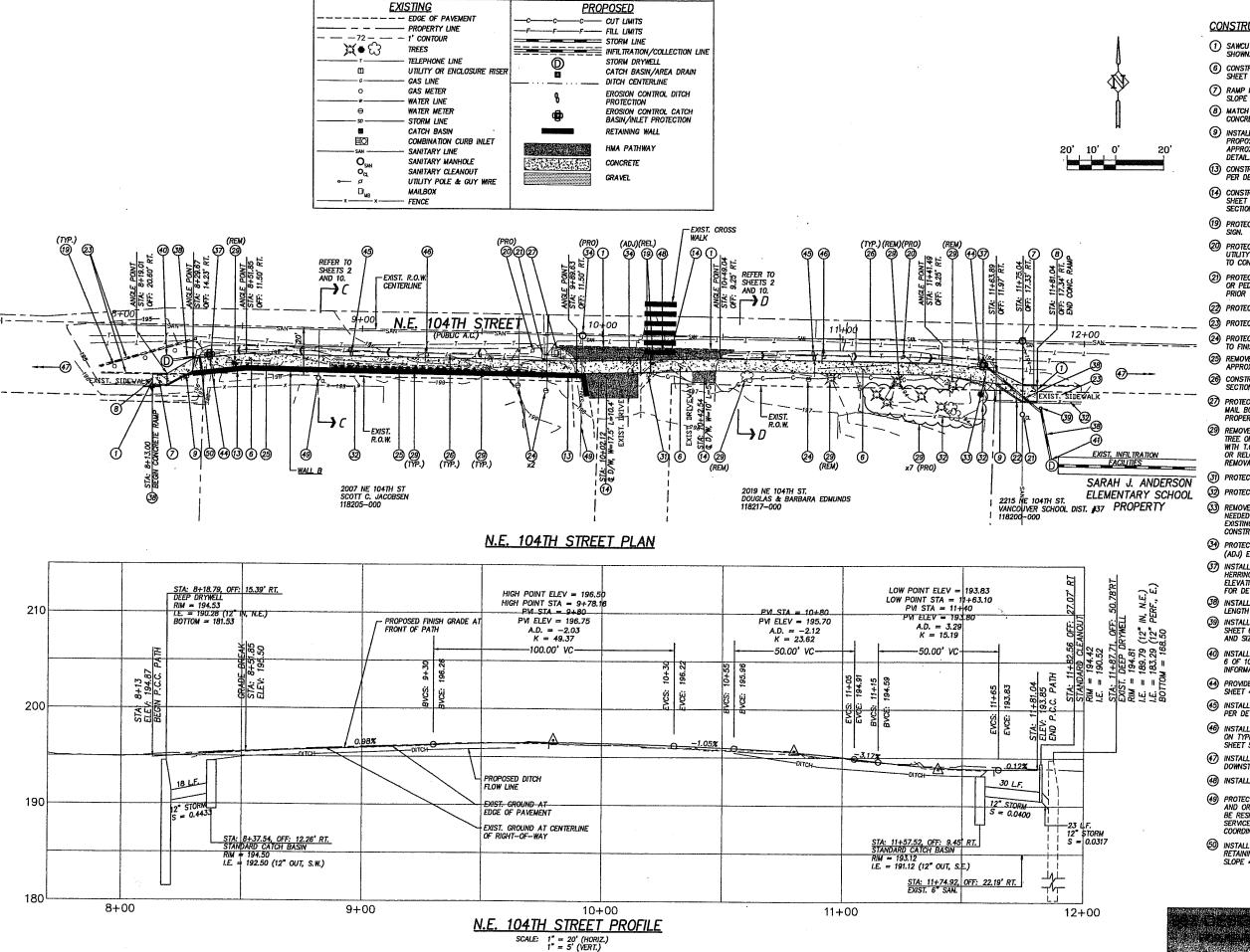
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(THP)

SARAH J. ANDERSON ELEMENTARY PEDESTRIAN PROJECT SECTION DESIGN

ENGINEERING PROGRAM



LEGEND

CONSTRUCTION NOTES:

- ① SAWCUT EXIST. ASPHALT OR CONCRETE AS SHOWN.
- 6 CONSTRUCT CONCRETE SIDEWALK PER DETAIL, SHEET 4 OF 10.
- 7) RAMP NEW CONCRETE SIDEWALK WITH MAX. SLOPE OF 12:1 PER DETAIL, SHEET 4 OF 10.
- MATCH NEW CONCRETE SIDEWALK TO EXIST. CONCRETE SIDEWALK.
- (9) INSTALL STANDARD 16" CURB AT BACK OF PROPOSED PATH. SEE PLAN FOR APPROXIMATE LIMITS. SEE SHEET 4 OF 10 FOR DETAIL
- (3) CONSTRUCT SEGMENTAL BLOCK RETAINING WALL PER DETAIL, SHEET 2 OF 10.
- (14) CONSTRUCT HMA DRIVEWAY TRANSITION. SEE SHEET 5 OF 10 FOR DETAIL AND STRUCTURAL SECTION.
- 19 PROTECT (PRO), RELOCATE (REL) EXISTING SIGN.
- (2) PROTECT (PRO), RELOCATE (REL) EXISTING UTILITY POLE. COORDINATE WITH UTILITY PRIOR TO CONSTRUCTION.
- (2) PROTECT EXISTING UTILITY RISER, TRANSFORMER OR PEDESTAL. COORDINATE WITH UTILITY PRIOR TO CONSTRUCTION.
- 2 PROTECT EXISTING STRUCTURE.
- 23) PROTECT EXISTING CURB AND OR SIDEWALK.
- 24) PROTECT EXISTING WATER METER AND ADJUST TO FINISH GRADE AS NECESSARY.
- (25) REMOVE EXISTING RETAINING WALL.
 APPROXIMATE LIMITS SHOWN ON THE PLAN.
- 26 CONSTRUCT DRAINAGE DITCH PER TYPICAL SECTION, SHEET 2 OF 10.
- (2) PROTECT (PRO) OR RELOCATE (REL) EXIST.
 MAIL BOX AND SUPPORT. COORDINATE WITH
 PROPERTY OWNER AND U.S.P.S.
- (29) REMOVE (REM.) OR PROTECT (PRO) EXISTING TREE OR SHRUB. CONTRACTOR TO COORDINATE WITH T.C.P. AND OWNER REGARDING DISPOSAL OR RELOCATION OF VEGETATION PRIOR TO REMOVAL.
- 3) PROTECT EXISTING FIRE HYDRANT.
- 32) PROTECT EXISTING FENCE.
- 33 REMOVE PORTION OF EXISTING FENCE AS NEEDED FOR CONSTRUCTION. TERMINATE EXISTING FENCE AT PROPERTY LINE WITH LIKE CONSTRUCTION AND MATERIALS.
- PROTECT (PRO) OR ADJUST TO FINISH GRADE (ADJ) EXISTING UTILITY COVER OR LID.
- (3) INSTALL STANDARD TYPE 1 CATCH BASIN HERRINGBONE GRATE. SEE PROFILE FOR ELEVATION INFORMATION, SEE SHEET 6 OF 10 FOR DETAILS.
- 38) INSTALL 12" STORM PIPE. SEE PROFILE FOR LENGTH AND ELEVATION INFORMATION.
- (39) INSTALL STORM CLEANOUT PER DETAIL ON SHEET 6 OF 10. SEE PROFILE FOR ELEVATION AND SIZE INFORMATION.
- (40) INSTALL DEEP DRYWELL PER DETAIL ON SHEET 6 OF 10. SEE PROFILE FOR ELEVATION INFORMATION.
- PROVIDE INLET PROTECTION PER DETAIL ON SHEET 4 OF 10.
- (45) INSTALL EROSION CONTROL SEDIMENT FENCE PER DETAIL, SHEET 3 OF 10.
- (46) INSTALL R7-1 "NO PARKING ANY TIME" SIGN ON TYPE ST-1 SIGN SUPPORT PER DETAIL, SHEET 5 OF 10.
- (17) INSTALL STORM INLET PROTECTION ON DOWNSTREAM INLETS.
- (48) INSTALL CROSSWALK STRIPE, MATCH EXISTING.
- (4) PROTECT EXISTING SANITARY SEWER LATERAL AND OR CLEAN OUT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGED OR SERVICE LATERALS. CONTRACTOR SHALL COORDINATE WITH HAZEL DELL SEWER DISTRICT.
- (5) INSTALL 4" STORM PIPE, CONNECT TO RETAINING WALL FOUNDATION DRAIN WITH MIN. SLOPE = 0.0200.



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"It's WORTHWEST
WINDERSE DIGGE





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Righellis Inc.
Sun 10, Vacourg, WA 98660

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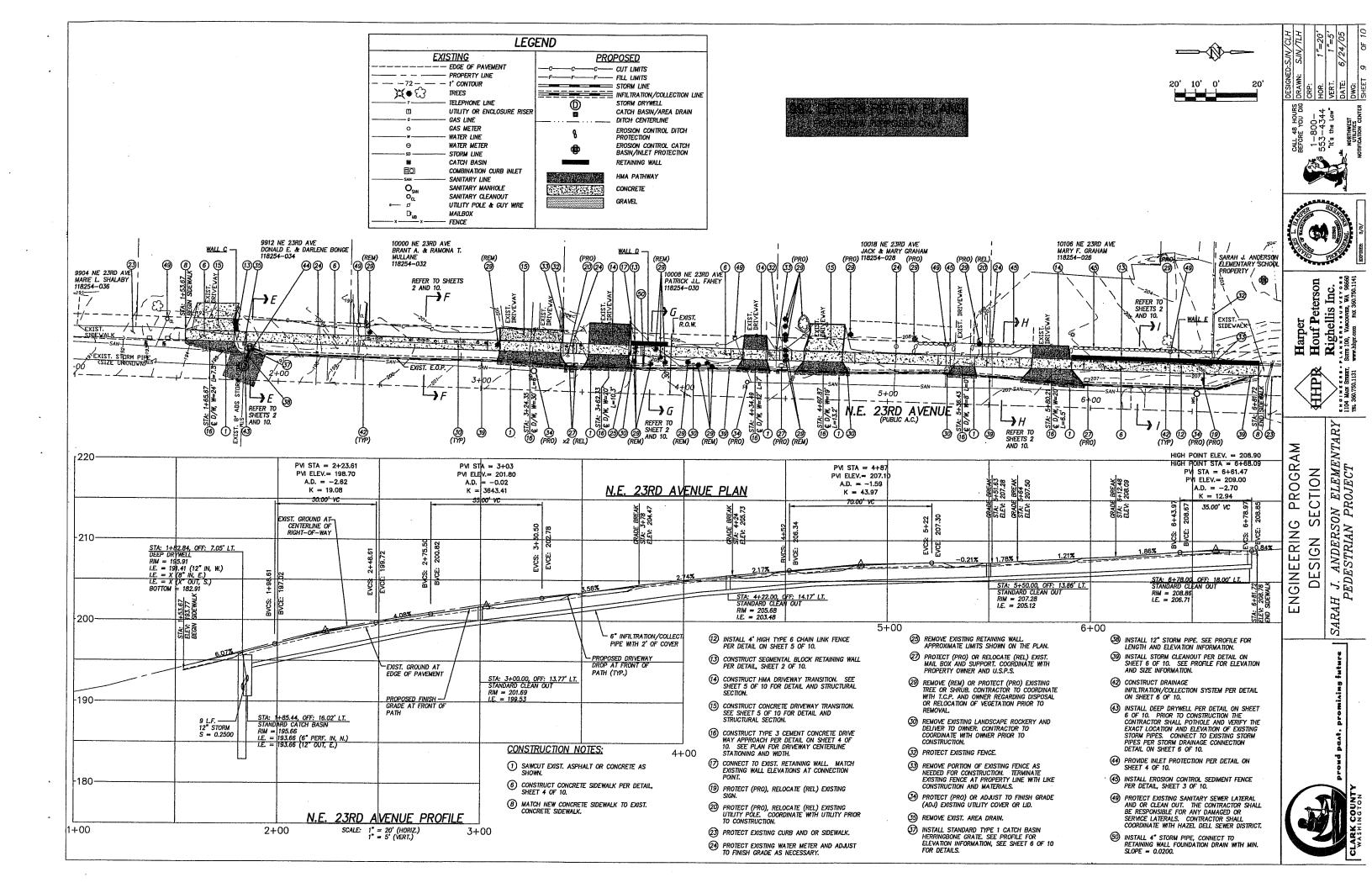
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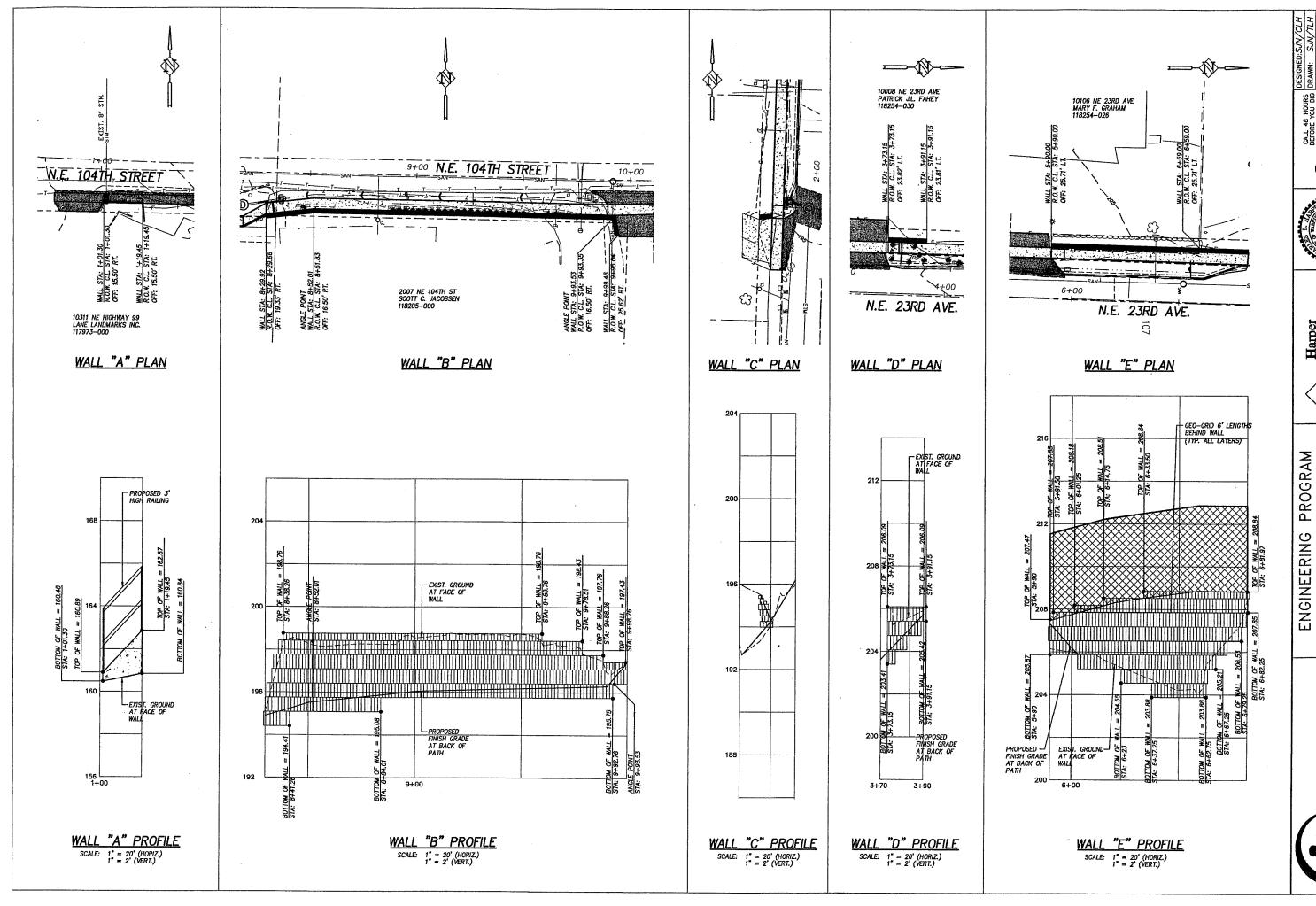
PROGRAM

ENGINEERING

Past, promising future

ARK COUNTY



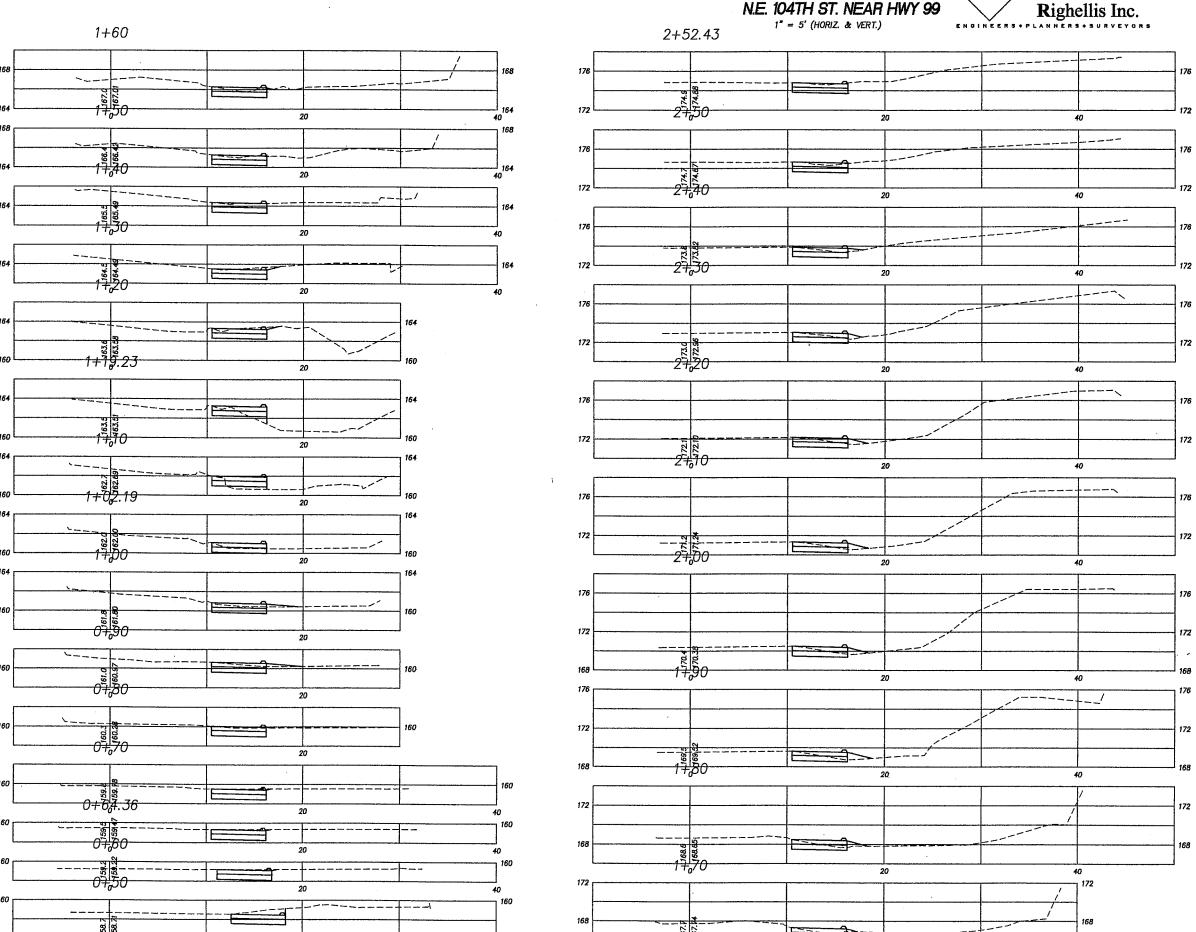


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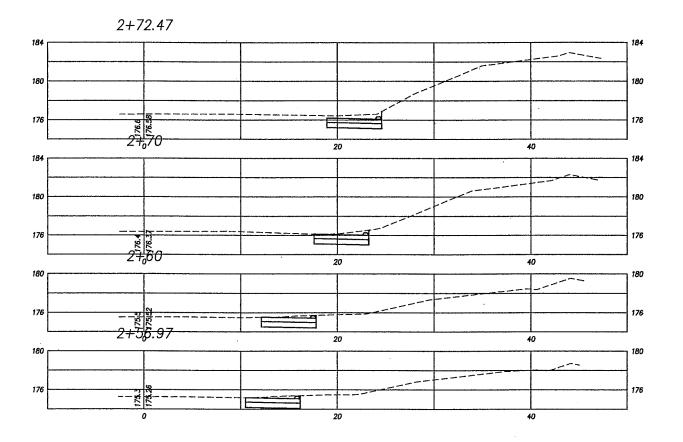
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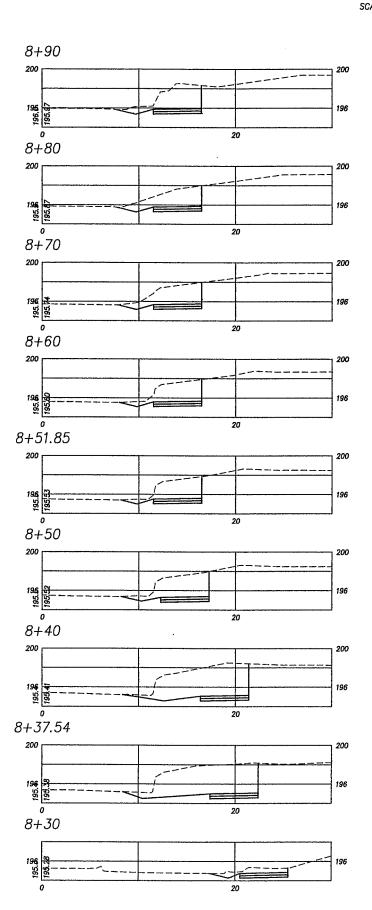


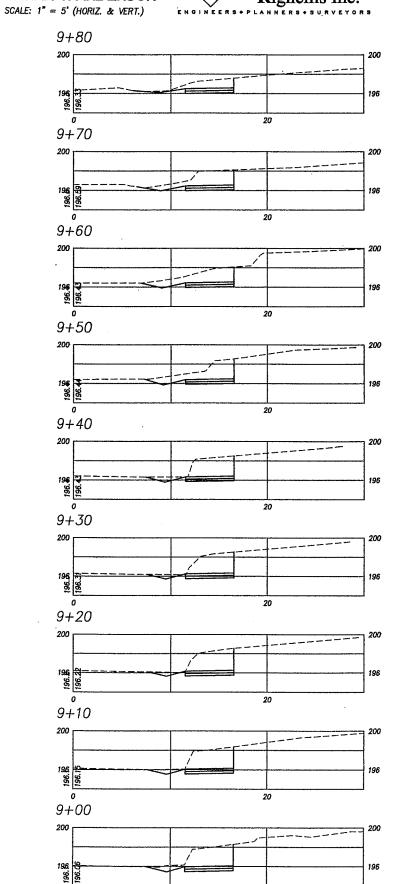
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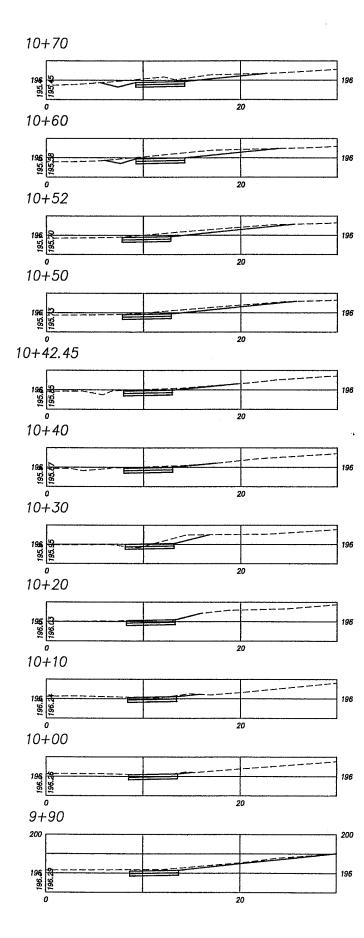


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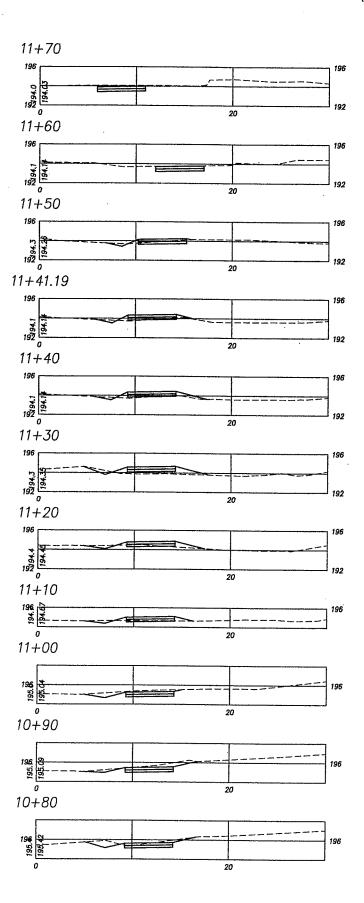


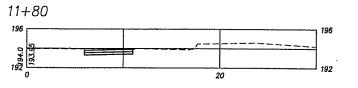












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